DONALD L HOLDER SITE LUDLH 1-5

LUNENBURG COUNTY

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS

TART D-VI. LARD ATT	LIGATION AGREEMENT	- DIOOOLIDO AND	MDOOTRIAL REGIDOAL	.0
here as "Landowner", and remains in effect until it is to the Landowner in the even individual parcels identified	reement is made on 1-2. Recyc Systems, Inc. erminated in writing by either of a sale of one or more part in this agreement changes, seive biosolids or industrial research.	referred to here as the ' r party or, with respect to rcels, until ownership of those parcels for which	'Permittee". This agreemen to those parcels that are reta all parcels changes. If own ownership has changed will	ined by ership of
Landowner: The Landowner is the owner the agricultural, silvicultural attached as Exhibit A.	er of record of the real prope I or reclamation sites identific	erty located in Lunen ed below in Table 1 and	Virginia, which incidentified on the tax map(s)	aludes
Table 1.: Parcels au	thorized to receive biosolids,	water treatment residua	als or other industrial sludge	s
Tax Parcel ID	<u>Tax Parcel ID</u>	Tax Parcel ID	Tax Parcel I	D
V1-V-	3a-A- 21A	32-A-23		
	32-A-18	32-A-23		
J Additional parcels containing Lan	d Application Sites are identified or	Supplement A (check if appli	cable)	
Check one:	e Landowner is the sole owr	ner of the properties idea	ntified herein.	
	e Landowner is one of multip			
within 38 months of the late 1. Notify the purchase	wner sells or transfers all or est date of biosolids applicati er or transferee of the applica of the property transfer; and	on, the Landowner shall able public access and o	l :	•
	e of the sale within two week		nsfer.	
notify the Permittee immed	er agreements for land appli iately if conditions change su of this agreement becomes in	uch that the fields are no	longer available to the Perr	
agricultural sites identified a inspections on the land ide	ints permission to the Permit above and in Exhibit A. The ntified above, before, during npliance with regulatory requ	Landowner also grants or after land application	permission for DEQ staff to of permitted residuals for th	conduct
Class B biosolids Wate ☑ Yes ☐ No ☑ Ye		ood processing waste I Yes □ No	Other industrial sludges ☑ Yes ☐ No	
0 %				
Vonall I Holes	DO MALD L. HOLDER Signature D. Wayne Hold	458 HOLDER RD	VICTORIR, VA. 434	<u>696 1351</u>
Landowner - Printed Name, Title	e Signature	l. men Gattelil	Malling Address & Phone Numb	er 11 685 351
Permittee:	Shara H. Worles	J 3133 Beach Valley	Ct Mahane OC . 37	۶۴ ۲۵۶ ۱۴ ۲۶ ۲۵ ۲۵۲
Recyc Systems, Inc., the	Sharen H. Wor le Permittee, agrees to apply blos A Permit Regulation and in amo	plids and/or industrial residuate	duals on the Landowner's land i	in the
plan prepared for each land ap	oplication field by a person certi	fied in accordance with §10	Sidentified in the nutrient mana 0.1-104.2 of the Code of Virgini	<u>a</u> .
The Permittee agrees to notify	the Landowner or the Landown	ner's designee of the propo	sed schedule for land applicati	on and
☐ I reviewed the document(s) document(s) available to DEQ	assigning signatory authority to for review upon request. (Do no	the person signing for lan	downer above. I will make a coner signs this agreement)	opy of this
99 m. for		PO Roy 583	2 Remington, Virginia 227	734
Permittee – Authorized Represe Printed Name			Mailing Address	 1

Rev 9/14/2012

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee:	Recyc Systems, Inc	County or City:	henentura
Landowner: _	Darda L Holder		9
Landowner \$	Site Management Requirements:		
	r, I have received a DEQ Biosolids Fact Sh psolids, the components of biosolids and pr		on regarding regulations governing the land oplication of biosolids.
identified below:	expressly advised by the Permittee that the must be complied with after biosolids have sible for the implementation of these practi	been applied on my prope	
l agree to implement the s	nent the following site management practic ite:	es at each site under m;	arship following the land application of
			purpose of identifying my field as a t 30 days after land application at that site is
b. 6 3 5 c. 7	Public access to land with a high potential fany application of blosolids.	r public exposure shall be ded soil shall be excavate sions are made to prevent lied shall not be harveste	restricted for at least 30 days following any d or removed from the site during this public exposure to soil, dusts or aerosols; d for one year after application of biosolids
b. 6 c. 6 d. 0 e. 6		plication of biosolids. surface of the land shall nemain on the land surface surface of the land shall neme period of less than found harvested for 30 days a	of for a time period of four (4) or more ot be harvested for 38 months when the or (4) months prior to incorporation. fter the application of biosolids;
Foilo a. f b. l	Access Restrictions: wing biosolids application to pasture or hay went to producing livestock shall not be grazed actating dairy animals shall not be grazed. Other animals shall be restricted from grazing the statement of the production of the pr	d for 30 days, for a minimum of 60 days	
applicatio	ental commercial fertilizer or manure applic ns such that the total crop needs for nutrier I by a person certified in accordance with §	nts are not exceeded as ic	lentified in the nutrient management plan
years folk	because it has been shown to accumulate wing the application of biosolids or industr cre (0.5 kilograms/hectare).		
Donas	el y Holder		1-23-15
Landowne	or's Signature		Date
Drawn D.Wa	H worly		1/23/15
Farm Ope	erator Signature	Mailin	g Address & Phone Number

Recyc Systems, Inc

Donald L. Holder Site

County	Owner	Operator	FSA Tract No.	Recyc Field No.	Acres	Date of Last Application
Lunenburg	Donald L. Holder	Donald L.	T16124	LWD1H 1	8.1	-
		Holder	Field 2			
			T16124	LUDIH 2	7.2	08/05
			Fijeld 1			
			T1004	LUDIH 3	13.7	09//08
			Field 1,2,3			
			T1176	LUDUH 4	16.5	09/05
			Field 5,6			
	:		T1176	LUDIH 5	32.1	09/08
			Field 1,2,3,4			
		!				

RECYC SYSTEMS, INC FIELD DATA SHEET

Field	Gross	En	vironnentally	Sensitive S	oils		Tax	FSA
Identification	Acres	Water Table	Bed Rock/Shallbow	SwiffLeaab	Freq Flood	Hydro Map	Map#	Tract #
LUDLH 1	8.1	12 B				CM06	TM32A, P21A	T16124
LUDLH 2	7.2	12 B	-		=-	CM06	TM32A, P21A	T16124
LUDLH 3	13.7	12 B			==	CM06	TM32A,P15	T1004
LUDLH 4	16.5	12B, 12C2			The size	CM06	TM32A, P22&23	T1176
LUDLH 5	32.1	12B, 12C2				CM06	TM32A, P22&2 3	T1176

					:			
	,							
TOTAL ACRES IN SITE	77.6							

Report Number:

A&L EASTERN AGRICULTURAL LABORATORIES, INC. 7621 Whitepine Road • Richmond, Virginia 23237 • (804) 743-9401

2004-R047-038

Fax No. (804) 271-6446 • Email: office@al-labs-eastern.com

Account # 70594

Send To:

RECYC SYSTEMS INC

POB 562

REMINGTON, VA 22734

Grower:

DONALD L HOLDER LUNENBURG COUNTY Samples Submitted By:

MARVIN MINOR

SOIL ANALYSIS REPORT

Page: 1

Date Received: 02/13/2004

Date of Analysis: 02/16/2004

Date of Report: 02/17/2004

Analytical Method:

Ammonium Acetate, Bray-P

			Organic I	Matter		Phospho	rus	Potassium	Magnesium	Calcium	Sodium		рH	Acidity	C.E.C.
Sample Number	Lab Numbe	г.	%	ENR lbs/A	A\ ppm	vailable Rate	Reserve ppm Rate	K ppm Rate	MG ppm Rate	CA ppm Rat	NA e ppm Ra		Index	H meq/100g	meq/100g
LUDVIH	177733		1.6 7	75 ∟ L		13 L L	18 L L	97 HH	136 VH	560 MM		5.9	6.84	0.9	5.0
LUDIH3	11777/334		1.88	8 0 ∟ L		4 WL	6 WL	63 MM	103 VH	446 MM		5.0	ĝ 6. 83	1.0	4.2
LUDIH3	11777/25		2.2 8	8 3 ∟ L		6 WL	8 WL	73 ∟ L	241 VH	730 MM		5.	7 6.777	1.6	7.4
LUDUH4	11777/236		2.1 8	82 MM		4 WL	6 WL	62 L L	226 VH	630 ∟ L		5.0	6.77	1.6	6.8
LUDDIH5	177733		2.2 8	84 MM		6 WL	8 WL	65 L L	189 VH	730 MM		5.	6 6.77	1.6	7.0
		Percer	nt Base S	aturation	1	Nitrate	, Sulffur	Zinc	Mangaeses	, Iron	Copper	Boron	Soluble	Chloride	Aluminum
Sample Number	K %	Mg %	Ca %	Na %	H %	• N/0/03-N ppm R/R/ta	SO4-S e pom RaRate	ZN ppmRead	MN ppm , Reales	FE ppm Ratate	CU ppm Ratate	B opm RaRate	Salts ms/cm Rate	CL ppm RaRate	AL ppm Rate
LUDNH4	4.9	225	55.5	, ,	17:1										
LUDDUH2	3.8	20.4	52.4		233										
LUDUH3	2.5	27.1	49.3		21.1										
LUDUH4	2.3	27.8	46.5		233										
LUDDIH5	2.4	22.4	511.9		233										

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to the sample(s) tested. Samples are retained a maximum of thirty days after testing. Soil Analysis prepared by: A & L EASTERN AGRICULTURAL LABORATORIES, INC.

C. Norman Jones

THE PLANNER IS NOT STATE CERTIFIED

Nutrient Management Plan Balance Sheet (Fall, 2009-Winter, 2011) Donald L Holder Planner: Recyc Systems, Inc

Tract: 1004

Location: Lunenburg

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

11 11 00300, 11	i buscu,	1.01	Dusca at 1.5 Telliov	ui, oi ito i ui	ionca,								
Field	Size	Yr.	Crop	Needs	Leg	Manure/Biosld	IT	Man/Bios	Net = Needs -	Sum	Commercial	Notes	
CFSA No.	(ac)			N-P-K	/Man	Rate & Type	(d)	N-P-K	appld N-P-K	P	N-P-K	ļ	
/Name	Total/	1		(lbs/ac)	Resid	(season)	1	(lbs/ac)	(lbs/ac)	rem	(lbs/ac)	1	
	Used	İ					1			cred			
F1,2,3/LUDLH3(N	V) 14/14	2009	Fescue grass hay	70-90-95	50/0				20-90-95	N/A			
			mt.				j		1	ļ			

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Notes:

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Tract: 1176 Location: Lunenburg (N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
F5,6/LUDLH4(N)	17/17	2009	Fescue grass hay mt.	70-90-110	0/0				70-90-110	N/A			

Commercial Application Methods: br - Broadcast ba - Banded sd - Sidedress

Notes:

Tract: 16124 Location: Lunenburg
(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/BiosId Rate & Type (season)	(d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
F2/LUDLH1(N)	8/8	2009	Wheat (cover)	20-0-0	0/0				20-0-0	N/A			
F1/LUDLH2(N)	7/7	l .	Fescue grass hay mt.	70-90-110	50/0				20-90-110	N/A			

Commercial Application Methods: br - Broadcast ba - Banded sd - Sidedress

Notes:

THE PLANNER IS NOT STATE CERTIFIED

Donald L Holder Narrative

This is the Donald L Holder farm located inLunenburg County. The farm consists of row crop and hay fields.

This is a partial plan written for the purpose of obtaining a biosolids permit. Biosolids application has not been shown since it is uncertain when a permit will be obtained. The partial plan will be revised prior to biosolids application to obtain a target biosolids application rate.

Field Productivities for Major Crops

Tract Name	Tract/ Field	Field Name	Acres	Predominant Soil Series	Corn	Small Grain	Alfalfa	Grass Hay	Environmental Warnings
1004	F1,2,3/F1, 2,	LUDLH3	14	Iredell	V	IV	Not Suited	IV	
1176	F5,6,1,2,3 ,4	LUDLH4	17	Iredell	V	V	Not Suited	IV	
	F5,6,1,2,3 ,4	LUDLH5	32	Georgeville	V	IV	- 111	IV	
16124	F2,1/F2	LUDLH1	8	Georgeville	V	IV	111	IV	
	F2,1/F1	LUDLH2	7	Georgeville	V	ΙV	111	IV .	

Yield Range

Field Productivity Group	Corn Grain Bu/Acre	Barley/Intensive Wheat Bu/Acre	Std. Wheat Bu/Acre	Alfalfa Tons/Acre	Grass/Hay Tons/Acre
1	>170	>80	>64	>6	>4.0
H	150-170	70-80	56-64	4-6	3.5-4.0
III	130-150	60-70	48-56	<4	3.0-3.5
IV	100-130	50-60	40-48	NA	<3.0
V	<100	<50	<40	NA	NA

Farm Summary Report

Plan:

New Plan

Fall, 2009 - Winter, 2011

Farm Name:

Donald L Holder

Location:

Lunenburg

Specialist:

Recyc Systems, Inc.

Tract Name:

1004

FSA Number: F1,2,3 Location:

Lunenburg

Field Name:

LUDLH3

Total Acres:

13.70 Usable Acres: 13.70

FSA Number: F1,2,3 Tract:

1004

В

Location:

Lunenburg

Slope Class:

Hydrologic Group:

С

Riparian buffer width: 0 ft Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE

РΗ

Κ

Lab

Fa-2009

5.7

L-(6 P ppm)

M(73 K ppm)

A&L MIII

Soils:

PERCENT

SYMBOL

SOIL SERIES

30

8B2

Georgeville

50

12B

Iredell

16D2 Mecklenburg

Field Warnings:

Tract Name:

1176

FSA Number: F5,6,1,2,3,4

Location:

Lunenburg

Field Name:

LUDLH4

Total Acres:

16.50 Usable Acres: 16.50

FSA Number: F5,6

Tract:

1176

В

Location:

Lunenburg

Slope Class:

Hydrologic Group:

С

Riparian buffer width: 0 ft Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE

PH

Κ

Lab

Fa-2009

5.6

L-(4 P ppm)

M-(62 K ppm)

A&L MIII

Soils:

PERCENT

SYMBOL

SOIL SERIES

108B **10** 8C 8B2 Georgevijeville

8C2 Georgerijeville

45 12

12B Iredetdell

25 12C

12C2 Irelotedell

10 10C

10C2 Hellerhena

Field Warnings:

Field Name: LUDLH5

Total Acres: 32.10 Usable Acres: 32.10

FSA Number: F1,2,3,4 Tract: 1176

Location: Lunenburg

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE PH P K Lab

Fa-2009 5.6 L-(6 P ppm) M-(65 K ppm) A&L MIII

Soils:

PERCENT SYMBOL SOIL SERIES

50 8B2 Georgeville 20 8C2 Georgeville 15 12C2 Iredell 15 16B2 Mecklenburg

Field Warnings:

Tract Name: 16124 FSA Number: F2,1

Location: Lunenburg

Field Name: LUDLH1

Total Acres: 8.10 Usable Acres: 8.10

FSA Number: F2 Tract: 16124

Location: Lunenburg

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE PH P K Lab

Fa-2009 5.9 L(13 P ppm) M(97 K ppm) A&L MIII

Soils:

PERCENT SYMBOL SOIL SERIES

25 8C2 Georgeville 10 12B Iredell 65 8B2 Georgeville

Field Warnings:

Field Name: LUDLH2

Total Acres: 7.20 Usable Acres: 7.20

FSA Number: F1 Tract: 16124

Location: Lunenburg

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE PH P K Lab

Fa-2009 5.6 L-(4 P ppm) M-(63 K ppm) A&L MIII

Soils:

PERCENT SYMBOL SOIL SERIES

40 8B2 Georgeville 30 8C2 Georgeville 30 12B Iredell

Field Warnings:

Tract Name: Default Tract

FSA Number: 0

Location: Lunenburg

Soil Test Summary

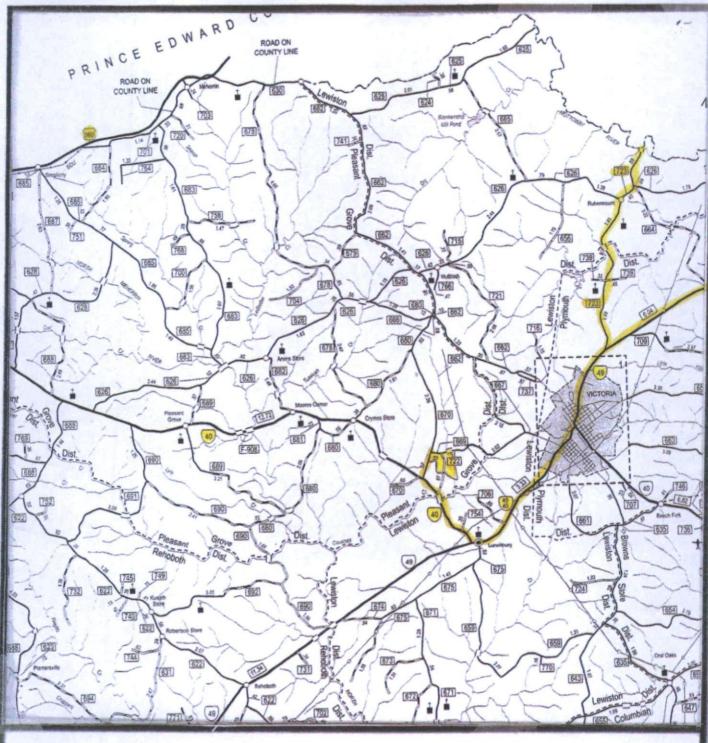
Tract	Field	Acre	Date	P2O5	K20	Lab	Soil pH	Lime Date	rec. lime tons/Ac
1004	LUDLH3	14	2009-Fa	L- (6 P ppm)	M (73 K ppm)	A&L MIII	5.7		
1176	LUDLH4	17	2009-Fa	L- (4 P ppm)	M- (62 K ppm)	A&L MIII	5.6		
1176	LUDLH5	32	2009-Fa	L- (6 P ppm)	M- (65 K ppm)	A&L MIII	5.6		
16124	LUDLH1	8	2009-Fa	L (13 P ppm)	M (97 K ppm)	A&L MIII	5.9		
16124	LUDLH2	7	2009-Fa	L- (4 P ppm)	M- (63 K ppm)	A&L MIII	5.6		

MAPS

Recyc Systems

(Biosolids Land Application)





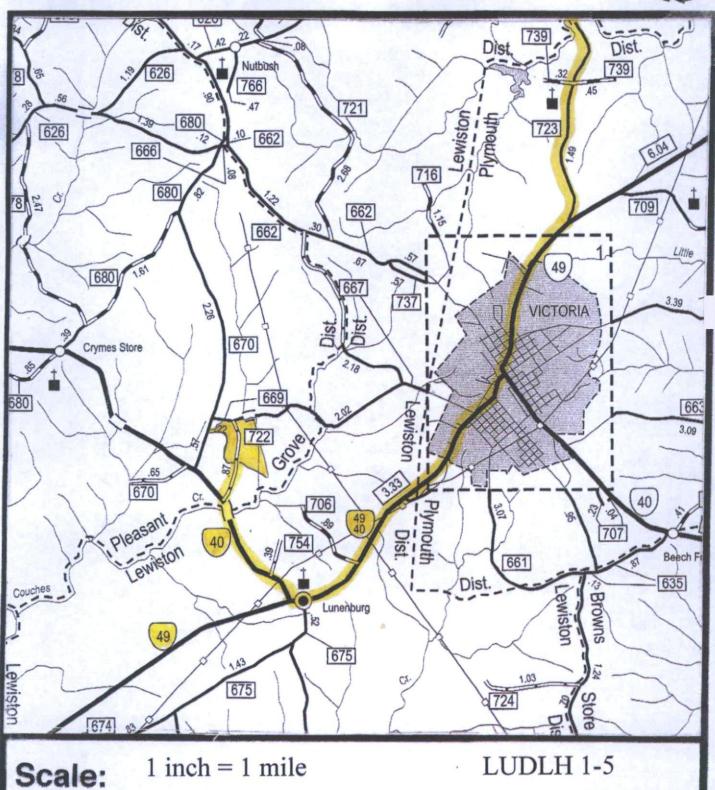
Scale: 1 inch = 2 miles

LUDLH 1-5

Recyc Systems...

STATE OF THE STATE

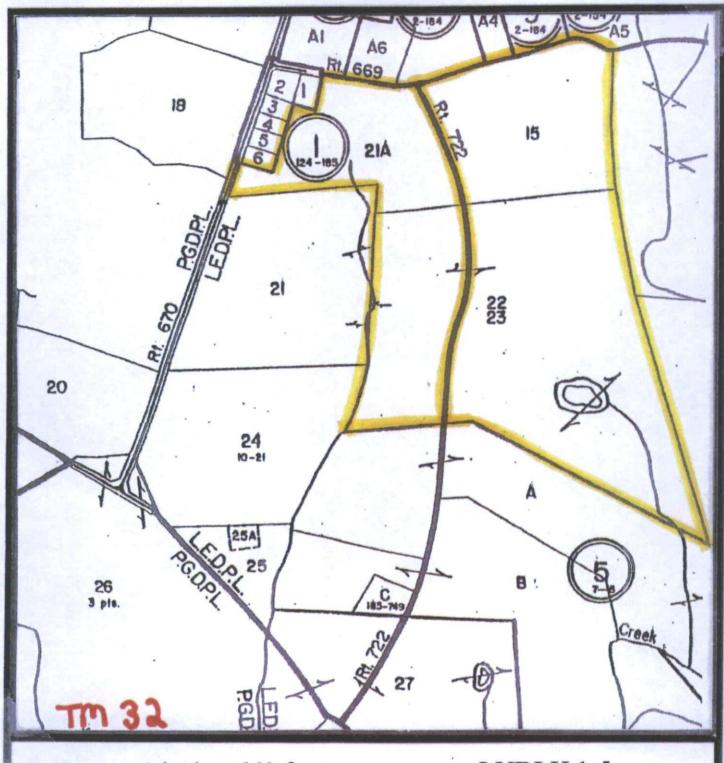
(Biosolids Land Application)



Recyc Systems.

1C. (Biosolids Land Application)





Scale:

1 inch = 660 feet

LUDLH 1-5

ADJOINING LANDOWNERS

Donald L Holder Site

LUNENBURG COUNTY

Tax Map	Parcel ##	Owner Name(s)
32	10	Edith Marrie Shelltron
32	111	Edith Marrie Shellton
32(1)	1	Lander & Helden Crowder
32(1)	2	Will IE. & Katthelten Jeffeffsenson
32(1)	3	Eilliej Malyanipolicy I. Crawley
32(1)	4	Willie C & Marie F. Hunt
32(1)	5	Donald L & Jean D. Holdeder
32(1)	6	Roger IL & Margie C. Ridley
32(5)	A	John William & Rondald Alan Hollder
32(8)	A 1	Aunra L.Street
32(8)	A4	Roy Dean Seansterter Dian Dian Dian Indian edy
32(8)	A5	Fiances AAHicks
32(9)	A7	Jesse Jahaen & Ro& Beam Seamster Seamste
32(9)	A8	Evelyn J. Culkin
32(A)	18	Jimmy Carsson Skektohon
32(A)	19	Malcolm L Bailley
32(A)	21	Roberta EvanssBudhandrana
32(A)	24	Donald L. & Jean D. Holder

Recyc Systems.

(Biosolids Land Application)





Scale:

1 inch = 660 feet

LUDLH 1-5

Recyc Systems. (Biosolids Land Application)





Scale: 1 inch = 660 feet

LUDLH 1-2

AERIAL MAP

Recyc Systems.

(Biosolids Land Application)





Scale:

1 inch = 660 feet

LUDLH 3

Recyc Systems. (Biosolids Land Application)





Scale:

1 inch = 660 feet

LUDLH 4-5

AERIAL MAP

Legend for Site Plan

House and Well

Well / Spring

Perennial Streams & Surface

Wet Spot
Intermittent Stream / Drainage

Trees and Woods

Private Drive Rock / Rocky Area

Sinkhole

Severely Eroded Spot

State Road

Field Boundary / Fence

Property Line

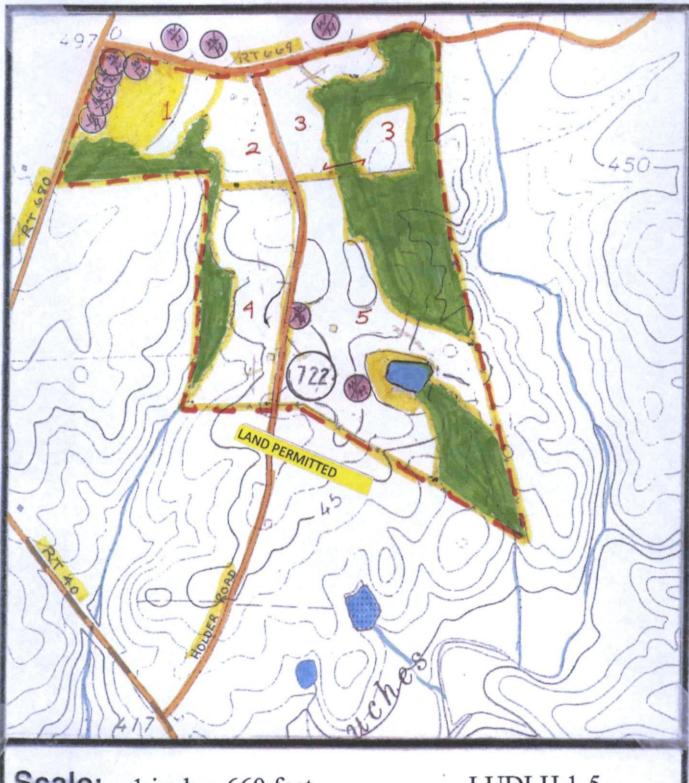
Slope

Frequent Flooded Soil

Recyc Systems

(Biosolids Land Application)





Scale: 1 inch = 660 feet

LUDLH 1-5

Recyc Systems.

(Biosolids Land Application)





Scale:

1 inch = 2,000 feet

LUDLH 1-5